MEPS HC-036: 1996-2002 Pooled Estimation File

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A. Data Use Agreement

Individual identifiers have been removed from the microdata contained in the files on this CD-ROM. Nevertheless, under sections 308 (d) and 903 (c) of the Public Health Service Act (42 U.S.C. 242m and 42 U.S.C. 299 a-1), data collected by the Agency for Healthcare Research and Quality (AHRQ) and/or the National Center for Health Statistics (NCHS) may not be used for any purpose other than for the purpose for which they were supplied; any effort to determine the identity of any reported cases is prohibited by law.

Therefore, in accordance with the above referenced Federal statute, it is understood that:

- 1. No one is to use the data in this data set in any way except for statistical reporting and analysis.
- 2. If the identity of any person or establishment should be discovered inadvertently, then (a) no use will be made of this knowledge, (b) the Director, Office of Management, AHRQ will be advised of this incident, (c) the information that would identify any individual or establishment will be safeguarded or destroyed, as requested by AHRQ, and (d) no one else will be informed of the discovered identity.
- 3. No one will attempt to link this data set with individually identifiable records from any data sets other than the Medical Expenditure Panel Survey or the National Health Interview Survey.

By using these data you signify your agreement to comply with the above-stated statutorily based requirements, with the knowledge that deliberately making a false statement in any matter within the jurisdiction of any department or agency of the Federal Government violates Title 18 Part 1 Chapter 47 Section 1001 and is punishable by a fine of up to \$10,000 or up to 5 years in prison.

The Agency for Healthcare Research and Quality requests that users cite AHRQ and the Medical Expenditure Panel Survey as the data source in any publications or research based upon these data.

B. Background

This documentation describes one in a series of public use files from the Medical Expenditure Panel Survey (MEPS). The survey provides a new and extensive data set on the use of health services and health care in the United States.

MEPS is conducted to provide nationally representative estimates of health care use, expenditures, sources of payment, and insurance coverage for the U.S. civilian noninstitutionalized population. MEPS is cosponsored by the Agency for Healthcare Research and Quality (AHRQ) and the National Center for Health Statistics (NCHS).

MEPS is a family of three surveys. The Household Component (HC) is the core survey and forms the basis for the Medical Provider Component (MPC) and part of the Insurance Component (IC). Together these surveys yield comprehensive data that provide national estimates of the level and distribution of health care use and expenditures, support health services research, and can be used to assess health care policy implications.

MEPS is the third in a series of national probability surveys conducted by AHRQ on the financing and use of medical care in the United States. The National Medical Care Expenditure Survey (NMCES) was conducted in 1977, and the National Medical Expenditure Survey (NMES) was conducted in 1987. Since 1996, MEPS has continued this series with design enhancements and efficiencies that provide a more current data resource to capture the changing dynamics of the health care delivery and insurance system.

The design efficiencies incorporated into MEPS are in accordance with the Department of Health and Human Services (DHHS) Survey Integration Plan of June 1995, which focused on consolidating DHHS surveys, achieving cost efficiencies, reducing respondent burden, and enhancing analytical capacities. To advance these goals, MEPS includes linkage with the National Health Interview Survey (NHIS)—a survey conducted by NCHS from which the sample for the MEPS HC is drawn—and enhanced longitudinal data collection for core survey components. The MEPS HC augments NHIS by selecting a sample of NHIS respondents, collecting additional data on their health care expenditures, and linking these data with additional information collected from the respondents' medical providers, employers, and insurance providers.

1.0 Household Component

The MEPS HC, a nationally representative survey of the U.S. civilian noninstitutionalized population, collects medical expenditure data at both the person and household levels. The HC collects detailed data on demographic characteristics, health conditions, health status, use of medical care services, charges and payments, access to care, satisfaction with care, health insurance coverage, income, and employment.

The HC uses an overlapping panel design in which data are collected through a preliminary contact followed by a series of five rounds of interviews over a 2½-year period. Using computer-assisted personal interviewing (CAPI) technology, data on medical expenditures and

use for 2 calendar years are collected from each household. This series of data collection rounds is launched each subsequent year on a new sample of households to provide overlapping panels of survey data and, when combined with other ongoing panels, will provide continuous and current estimates of health care expenditures.

The sampling frame for the MEPS HC is drawn from respondents to NHIS. NHIS provides a nationally representative sample of the U.S. civilian noninstitutionalized population, with oversampling of Hispanics and blacks.

2.0 Medical Provider Component

The MEPS MPC supplements and/or replaces information on medical care events reported in the MEPS HC by contacting medical providers and pharmacies identified by household respondents. The MPC sample includes all home health agencies and pharmacies reported by HC respondents. Office-based physicians, hospitals, and hospital physicians are also included in the MPC but may be subsampled at various rates, depending on burden and resources, in certain years.

Data are collected on medical and financial characteristics of medical and pharmacy events reported by HC respondents. The MPC is conducted through telephone interviews and record abstraction.

3.0 Insurance Component

The MEPS IC collects data on health insurance plans obtained through private and public-sector employers. Data obtained in the IC include the number and types of private insurance plans offered, benefits associated with these plans, premiums, contributions by employers and employees, and employer characteristics.

Establishments participating in the MEPS IC are selected through three sampling frames:

- A list of employers or other insurance providers identified by MEPS HC respondents who report having private health insurance at the Round 1 interview.
- A Bureau of the Census list frame of private-sector business establishments.
- The Census of Governments from the Bureau of the Census.

To provide an integrated picture of health insurance, data collected from the first sampling frame (employers and other insurance providers identified by MEPS HC respondents) are linked back to data provided by those respondents. Data collected from the two Census Bureau sampling frames are used to produce annual national and State estimates of the supply and cost of private health insurance available to American workers and to evaluate policy issues pertaining to health insurance. National estimates of employer contributions to group health insurance from the MEPS IC are used in the computation of Gross Domestic Product (GDP) by the Bureau of Economic Analysis.

The MEPS IC is an annual panel survey. Data are collected from the selected organizations through a prescreening telephone interview, a mailed questionnaire, and a telephone followup for nonrespondents.

4.0 Survey Management

MEPS data are collected under the authority of the Public Health Service Act. They are edited and published in accordance with the confidentiality provisions of this act and the Privacy Act. NCHS provides consultation and technical assistance.

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports, microdata files, and compendiums of tables. Data are also released through MEPSnet, an online interactive tool developed to give users the ability to statistically analyze MEPS data in real time. Summary reports and compendiums of tables are released as printed documents and electronic files. Microdata files are released on CD-ROM and/or as electronic files.

Printed documents and selected public use file data on CD-ROMs are available through the AHRQ Publications Clearinghouse. Write or call:

AHRQ Publications Clearinghouse
Attn: (publication number)
P.O. Box 8547
Silver Spring, MD 20907
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410-381-3150 (callers outside the United States only)
888-586-6340 (toll-free TDD service; hearing impaired only)

Be sure to specify the AHRQ number of the document or CD-ROM you are requesting.

Selected electronic files are available through the Internet on the MEPS Web site: http://www.meps.ahrq.gov/

Additional information on MEPS is available from the MEPS project manager or the MEPS public use data manager at the Center for Financing, Access and Cost Trends, Agency for Healthcare Research and Quality, 540 Gaither Road, Rockville, MD 20850 (301/427-1406).

C. Technical and Programming Information

1.0 General Information

To facilitate analysis of subpopulations, it may be necessary to pool together more than one year of MEPS data to yield sample sizes large enough to generate reliable estimates. For instance, one might wish to make estimates of total expenditures for a low prevalence event by combining several years of data. Because the MEPS sample over the years was selected so that both persons and localities may repeat, plus the selection used a complex survey design, estimates of errors must consider this unified design.

This unified design structure should be used with specialized software, such as, SUDAAN, STATA or WESVAR to calculate estimates of sampling errors.

Pooling multiple years of MEPS data requires the use of a common sample design structure. This file contains the variables required to put all data from 1996-2002 into a common structure required to produce error estimates using more than one year of pooled MEPS data.

2.0 Data File Information

Released as an ASCII data file (with SAS and SPSS user statements) and in SAS Transport version, the H36 file contains 115,904 records. These records contain the standard MEPS person-level ID variables (DUID, PID and DUPERSID), as well as the 1996-2002 combined variance stratum and PSU variables (STRA9602 and PSU9602, respectively).

There is a record for each person who appears on any of the 1996-2002 MEPS full-year person level public use files: HC-012, HC-020, HC-028, HC-038, HC-050, HC-060, and HC-062. These seven data sets have a combined total of 203,659 records. However, because there are panels of households which appear in more than one year, there are duplicate persons over the seven years and thus fewer persons than records.

3.0 Linking Instructions

The following steps should be taken to create a pooled file over the seven years.

- 1. Create a SAS file for each year containing persons desired from that year of data. Keep the person identifier DUPERSID and any other variables desired for the analysis.
- 2. Rename similar variables from different years to common names. As part of this process one may have to rename variables from different years so that they have a consistent name. Many variables have names for each year that are of the form nameyy where the name portion is the same, but yy represents the year of the file. To use as the same variable one must rename each year as the same variable. For instance, name96 and name97 might be given the title NAME.
- 3. Concatenate files together from the seven years.

- 4. Sort the file of combined years by DUPERSID.
- 5. Merge the combined file with the HC-036 data file by DUPERSID and keep records that are in both files. Retain all variables.
- Produce desired estimates as desired variables STRA9602 and PSU9602 in the same manner as the variables VARSTRyy and VARPSUyy are used in variance calculations for individual years.

4.0 Other Considerations

In working with pooled data one must consider the analysis goals and tailor weights and combine person records to fit the analysis plan. However, for many types of work one does not need to combine records of the same person (persons with the same value of DUPERSID). For instance, if one is making estimates of totals for 7 years or an average over the 7 years, one can retain the individual person records from the 7 years of data and their individual weights. Likewise, if one were running weighted linear regression model, here would be no need to combine records by person or change weights.

5.0 Further Information

For any question regarding the HC-036 file or pooling of data, please contact John Sommers by email at: jsommers@ahrq.gov.

For additional information on the construction of this file, see Greenblatt, Janet, Sample Design of the Medical Expenditure Household Survey, Household Component, 1998-2004. Forthcoming.